

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331604-840

Luminaire Tested: **S122DIW-S1005D1240U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331604-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D1240U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

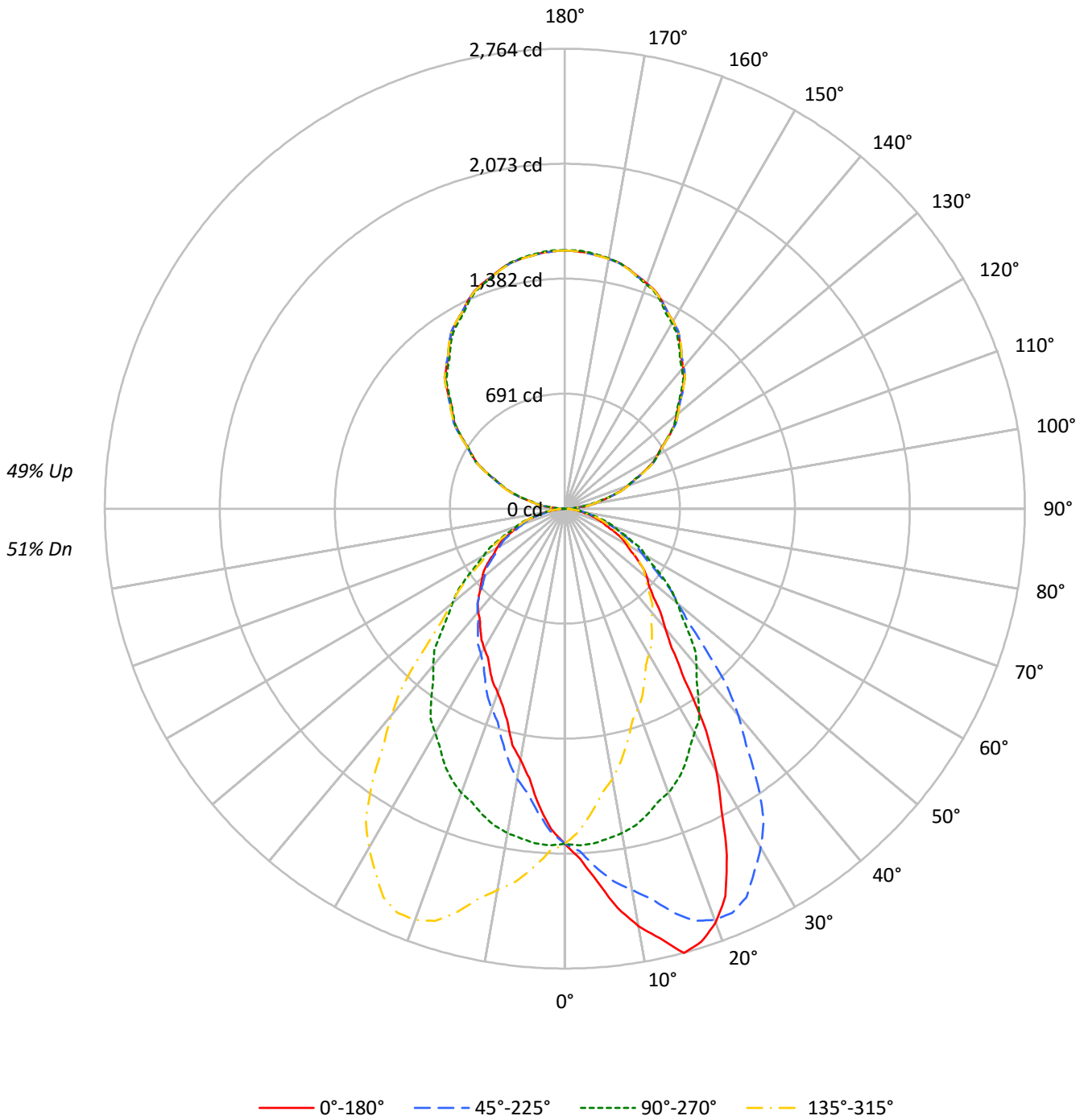
Lumens per Lamp: N/A
Luminaire Lumens: 8787.6 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	44	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32513	32513	32513	32513
5°	36451	32725	29000	32725
10°	41769	32455	25097	32455
15°	46208	31861	22173	31861
20°	45505	31223	20213	31223
25°	41031	30375	18971	30375
30°	33907	29015	18066	29015
35°	24711	27595	17420	27595
40°	19736	25918	17062	25918
45°	17249	23980	16575	23980
50°	16211	22102	16252	22102
55°	14945	20194	15817	20194
60°	13695	18167	15145	18167
65°	12478	16351	14487	16351
70°	11325	14578	13520	14578
75°	10044	12601	11977	12601
80°	8638	10432	9642	10432
85°	7744	7744	5743	7744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.2
10°-20°	557.5	6.3
20°-30°	809.1	9.2
30°-40°	853.9	9.7
40°-50°	756.0	8.6
50°-60°	603.3	6.9
60°-70°	410.1	4.7
70°-80°	210.2	2.4
80°-90°	56.9	0.6
90°-100°	98.3	1.1
100°-110°	305.4	3.5
110°-120°	522.0	5.9
120°-130°	686.4	7.8
130°-140°	770.4	8.8
140°-150°	755.4	8.6
150°-160°	633.6	7.2
160°-170°	420.3	4.8
170°-180°	146.9	1.7
0°-30°	1558.5	17.7
0°-40°	2412.3	27.5
0°-60°	3771.7	42.9
0°-90°	4448.8	50.6
90°-120°	925.7	10.5
90°-150°	3138.0	35.7
90°-180°	4339.0	49.4
0°-180°	8787.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2014	2014	2014	2014	2014	
5°	2249	2019	1789	2019	2249	225
15°	2764	1906	1326	1906	2764	763
25°	2303	1705	1065	1705	2303	1041
35°	1254	1400	884	1400	1254	815
45°	755	1050	726	1050	755	594
55°	531	717	562	717	531	476
65°	327	428	379	428	327	325
75°	161	202	192	202	161	172
85°	42	42	31	42	42	47
90°	44	1	44	1	44	21
95°	81	68	81	68	81	91
105°	291	282	291	282	291	306
115°	524	524	524	524	524	517
125°	765	762	765	762	765	682
135°	998	986	998	986	998	768
145°	1210	1197	1210	1197	1210	756
155°	1379	1368	1379	1368	1379	635
165°	1490	1489	1490	1489	1490	420
175°	1544	1549	1544	1549	1544	147
180°	1552	1552	1552	1552	1552	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2106.6	2107.2	2108.4	2098.5	2097.3	2097.3	2088.6	2081.2	2072.5	2060.7	2062.0
5°	2249.0	2257.5	2260.6	2251.3	2237.4	2235.8	2222.7	2201.0	2180.9	2164.6	2153.0
7.5°	2418.9	2422.4	2414.8	2402.6	2392.2	2373.6	2349.1	2325.1	2291.6	2260.8	2237.9
10°	2547.7	2552.3	2539.2	2521.4	2506.7	2485.1	2449.4	2413.1	2368.9	2326.4	2292.3
12.5°	2645.5	2657.0	2640.1	2637.8	2612.6	2582.8	2540.4	2522.0	2459.9	2400.7	2364.2
15°	2764.4	2763.6	2765.2	2750.5	2731.9	2727.2	2682.4	2633.6	2546.2	2511.3	2450.9
17.5°	2730.1	2741.8	2747.2	2747.0	2746.6	2743.7	2729.3	2698.5	2654.6	2598.2	2528.5
20°	2648.4	2663.8	2666.1	2683.9	2694.0	2707.1	2712.6	2704.0	2677.0	2629.8	2569.4
22.5°	2522.0	2526.4	2533.7	2561.3	2583.1	2616.2	2633.3	2661.9	2651.6	2628.5	2578.1
25°	2303.2	2295.4	2322.5	2336.4	2386.7	2439.3	2477.3	2519.1	2556.3	2578.7	2563.9
27.5°	2040.3	2028.7	2069.3	2106.3	2147.2	2204.1	2263.2	2333.0	2391.1	2463.7	2488.6
30°	1818.7	1825.6	1864.3	1903.8	1965.7	2046.2	2112.7	2189.4	2272.2	2353.5	2409.9
32.5°	1579.7	1606.5	1630.9	1691.4	1746.0	1835.7	1933.2	2029.0	2132.3	2224.7	2312.2
35°	1253.7	1284.6	1318.8	1362.8	1439.5	1528.4	1623.7	1752.9	1893.8	2019.9	2123.6
37.5°	1055.3	1050.4	1069.9	1101.8	1163.8	1235.7	1345.2	1472.9	1638.7	1787.0	1933.2
40°	936.4	933.3	947.3	976.6	1023.9	1076.5	1172.5	1284.6	1438.7	1619.8	1793.9
42.5°	854.7	856.6	864.3	885.0	917.4	960.7	1032.6	1128.0	1269.1	1439.7	1626.8
45°	755.4	760.7	769.3	779.3	797.9	833.5	873.7	941.9	1053.3	1195.7	1379.9
47.5°	683.8	684.0	692.7	701.5	712.5	732.6	765.4	808.1	886.8	1002.7	1161.0
50°	645.4	640.1	646.2	653.2	664.8	678.7	700.3	740.6	793.2	886.9	1019.3
52.5°	598.3	598.5	604.1	606.7	617.1	631.1	650.9	678.7	726.4	799.6	908.4
55°	530.9	534.7	537.9	542.5	551.8	561.9	577.3	595.9	633.1	688.0	768.5
57.5°	467.5	468.7	471.8	480.6	486.5	495.7	510.5	527.4	551.5	592.2	652.7
60°	424.1	424.1	430.3	434.1	441.9	451.2	462.8	479.1	500.7	534.0	582.8
62.5°	384.5	383.8	386.4	392.6	398.6	407.3	418.8	432.6	453.0	482.6	522.7
65°	326.6	325.1	329.7	331.2	337.4	346.0	355.3	369.9	386.2	407.9	443.4
67.5°	270.8	272.8	275.2	278.1	281.6	290.5	296.7	307.1	320.8	338.8	362.9
70°	239.9	239.9	239.9	242.3	246.9	251.6	257.7	266.2	279.4	294.9	316.5
72.5°	205.2	207.7	210.2	208.8	214.7	217.4	224.9	229.7	242.3	252.2	271.4
75°	161.0	161.0	161.0	164.8	167.1	169.5	174.1	178.7	185.0	197.3	207.4
77.5°	120.1	119.8	120.6	121.5	124.0	126.7	128.2	132.3	138.0	143.8	152.3
80°	92.9	94.4	95.2	96.7	96.7	98.3	99.1	104.5	108.4	112.2	117.6
82.5°	71.8	72.1	72.3	72.6	73.2	74.1	76.1	77.9	79.3	82.5	86.6
85°	41.8	41.0	41.0	42.5	41.8	41.8	43.3	44.8	44.8	45.6	48.0
87.5°	25.0	24.9	25.5	24.8	24.7	25.4	25.5	25.0	25.8	26.5	25.9
90°	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6	45.2	45.8	39.4
92.5°	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9	41.7	41.6	40.1
95°	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8	83.8	83.8	83.2
97.5°	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9	140.9	140.9	139.8
100°	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7	180.7	180.7	179.9
102.5°	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1	223.9	223.7	222.6
105°	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2	288.6	288.1	287.5
107.5°	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5	359.3	359.0	359.0
110°	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0	455.8	456.5	456.7
115°	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5	528.8	529.0	529.6
117.5°	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4	600.1	600.8	602.4
120°	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8	646.8	646.8	649.1
122.5°	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8	696.4	697.1	698.7
125°	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2	769.1	769.9	770.8
127.5°	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6	839.6	840.6	841.7
130°	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7	887.2	887.8	888.4
132.5°	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4	934.7	935.9	935.8
135°	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5	1002.7	1003.0	1002.5
137.5°	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5	1068.8	1069.0	1068.2
140°	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0	1113.0	1113.0	1111.6
142.5°	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3	1153.1	1152.9	1151.9
145°	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5	1214.2	1213.9	1212.1
147.5°	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0	1267.4	1266.8	1265.6
150°	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3	1299.1
152.5°	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8	1332.4
155°	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2	1377.7	1376.2	1375.3
157.5°	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0	1416.9	1415.0	1414.4
160°	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6	1440.8	1439.1	1438.8
162.5°	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0	1462.0	1460.1	1459.8
165°	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6	1489.6	1487.5	1487.5
167.5°	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4	1512.4	1510.3	1510.4
170°	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9	1524.9	1522.9	1523.2
172.5°	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4	1534.4	1532.3	1532.6
175°	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6	1544.6	1542.5	1543.1
177.5°	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5	1549.0
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2066.4	2061.4	2058.3	2047.2	2037.2	2027.3	2024.3	2025.5	2011.9	1998.8	1993.3
5°	2146.9	2131.3	2116.7	2095.8	2071.0	2043.9	2029.9	2019.1	1992.1	1962.7	1945.6
7.5°	2219.0	2196.9	2168.5	2129.2	2093.1	2050.5	2023.5	1999.4	1959.8	1918.3	1893.0
10°	2262.9	2232.7	2196.4	2148.4	2104.3	2052.4	2016.0	1979.6	1933.2	1883.7	1852.7
12.5°	2300.7	2260.0	2224.2	2162.6	2110.4	2045.6	2002.5	1951.2	1902.3	1843.4	1813.1
15°	2390.7	2315.5	2247.5	2177.8	2113.5	2023.0	1975.0	1906.1	1841.9	1769.2	1734.3
17.5°	2460.1	2375.7	2268.5	2180.0	2105.1	2004.8	1934.3	1851.8	1775.8	1692.7	1645.4
20°	2499.7	2403.0	2287.6	2182.4	2092.6	1978.1	1901.5	1817.2	1728.2	1634.5	1583.5
22.5°	2523.2	2421.6	2307.5	2173.1	2067.9	1956.4	1860.0	1767.6	1677.4	1576.3	1522.8
25°	2530.7	2437.8	2317.1	2165.5	2036.9	1910.8	1794.7	1705.0	1595.8	1501.4	1423.2
27.5°	2493.9	2427.3	2311.2	2150.8	2001.1	1853.7	1724.2	1622.6	1507.4	1404.9	1326.4
30°	2448.6	2409.9	2296.9	2136.0	1972.7	1814.0	1671.6	1556.3	1441.8	1338.1	1257.6
32.5°	2378.7	2370.4	2271.0	2115.0	1942.4	1763.9	1616.6	1500.0	1373.1	1271.2	1194.5
35°	2241.3	2278.4	2215.7	2067.9	1885.2	1692.5	1533.1	1400.0	1268.5	1170.9	1098.9
37.5°	2057.1	2149.3	2132.9	1999.0	1808.2	1614.9	1438.9	1299.7	1174.4	1075.9	1005.3
40°	1930.2	2047.8	2064.8	1946.4	1753.7	1554.8	1368.3	1229.7	1107.4	1017.7	946.4
42.5°	1793.9	1931.4	1978.1	1883.2	1694.3	1491.7	1305.1	1161.6	1040.6	953.3	890.2
45°	1565.6	1747.5	1831.9	1777.7	1595.1	1387.7	1195.7	1050.2	940.3	858.3	809.5
47.5°	1352.2	1551.0	1664.4	1645.2	1484.7	1279.3	1089.5	949.9	842.9	777.5	733.9
50°	1201.1	1405.4	1542.4	1548.6	1405.4	1201.8	1011.5	879.9	781.6	720.5	684.9
52.5°	1069.9	1264.9	1414.2	1447.0	1316.9	1121.4	941.5	810.6	724.1	667.9	636.0
55°	898.5	1063.4	1229.0	1289.3	1184.9	999.2	832.7	717.4	636.1	597.4	569.6
57.5°	747.0	884.4	1037.3	1104.1	1039.7	880.7	724.7	624.5	558.7	524.7	503.3
60°	667.1	775.5	911.7	991.4	935.6	794.1	657.8	562.6	508.5	478.3	458.2
62.5°	592.8	688.8	804.0	876.9	846.5	713.0	591.0	507.0	460.2	431.8	417.3
65°	489.1	564.9	654.0	721.2	701.1	599.8	500.0	428.0	390.8	368.4	356.8
67.5°	402.7	457.6	519.3	578.2	562.0	490.2	410.0	354.0	326.3	306.9	299.9
70°	348.3	390.0	445.0	492.2	479.1	420.2	356.8	308.8	284.8	268.5	261.6
72.5°	296.3	330.6	372.5	411.1	402.2	353.4	300.4	264.2	245.8	230.8	225.1
75°	223.7	249.9	275.5	301.0	298.7	260.8	229.8	202.0	187.3	175.7	173.4
77.5°	165.1	179.9	197.2	212.4	208.1	186.5	162.2	146.2	135.4	127.6	126.4
80°	126.1	134.6	147.0	157.8	152.5	143.2	123.8	112.2	104.5	96.7	93.6
82.5°	91.5	100.0	107.4	113.3	109.2	100.5	88.6	80.7	76.0	70.7	69.5
85°	48.0	52.6	55.7	57.3	55.7	50.3	44.8	41.8	38.0	35.6	34.8
87.5°	25.1	23.9	22.6	22.8	20.3	19.6	16.5	13.8	13.9	14.0	13.5
90°	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3	4.8	8.3	11.8
92.5°	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3	25.9	28.5	31.0
95°	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1	71.0	73.9	76.9
97.5°	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4	126.9	129.6	132.1
100°	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3	168.6	171.0	173.3
102.5°	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3	212.2	214.0	215.9
105°	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6	282.4	283.3	284.2
107.5°	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3	354.6	355.9	357.1
110°	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4	401.1	402.8	404.7



TEST NUMBER: P331604-840

CATALOG NUMBER: S122DIW-S1005D1240U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7	451.4	453.1	454.9
115°	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8	525.5	527.3	529.0
117.5°	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6	600.0	602.3	604.6
120°	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	649.1	651.6	653.9
122.5°	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9	694.7	697.5	700.2
125°	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0	764.7	767.3	769.9
127.5°	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4	833.7	837.1	840.4
130°	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4	877.2	881.0	884.7
132.5°	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6	924.6	927.8	930.8
135°	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0	989.2	992.4	995.6
137.5°	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8	1056.4	1059.0	1061.7
140°	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7	1097.3	1099.9	1102.6
142.5°	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6	1139.2	1141.9	1144.5
145°	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8	1198.9	1200.9	1203.0
147.5°	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5	1252.9	1255.4	1257.9
150°	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2	1288.9	1290.7	1292.4
152.5°	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7	1321.4	1323.1	1324.8
155°	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4	1369.3	1370.1	1371.0
157.5°	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0	1410.6	1411.2	1411.8
160°	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1	1435.7	1436.3	1436.9
162.5°	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1	1458.3	1458.4	1458.5
165°	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8	1488.5	1488.2	1487.9
167.5°	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5	1513.6	1512.8	1511.9
170°	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1	1527.2	1526.4	1525.5
172.5°	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5	1536.7	1535.8	1534.9
175°	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0	1548.2	1547.3	1546.4
177.5°	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8	1553.1	1552.4	1551.7
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1987.1	1983.4	1970.3	1963.6	1952.5	1941.9	1935.1	1938.2	1940.7	1939.4	1937.5
5°	1930.2	1915.4	1893.0	1873.6	1859.7	1834.2	1823.3	1818.0	1813.3	1807.9	1802.4
7.5°	1862.3	1839.2	1807.0	1779.4	1753.3	1721.6	1703.5	1692.7	1681.5	1669.3	1658.5
10°	1814.0	1781.5	1747.5	1708.8	1677.9	1649.2	1623.7	1606.6	1591.1	1576.5	1565.6
12.5°	1763.3	1725.9	1683.7	1630.8	1596.7	1555.7	1551.9	1521.9	1497.6	1488.5	1475.8
15°	1682.4	1629.8	1576.5	1513.8	1486.7	1449.6	1426.3	1403.1	1382.2	1367.5	1363.6
17.5°	1590.7	1522.6	1469.5	1424.4	1380.1	1342.0	1320.6	1302.0	1284.9	1265.2	1262.5
20°	1520.8	1461.9	1403.9	1364.4	1318.8	1280.0	1253.7	1235.2	1220.4	1208.8	1198.8
22.5°	1454.5	1390.1	1337.0	1293.8	1248.8	1217.5	1196.8	1178.8	1166.6	1153.8	1144.3
25°	1348.2	1297.9	1239.8	1191.0	1153.9	1133.8	1116.7	1101.3	1093.6	1085.0	1074.2
27.5°	1255.2	1199.2	1144.9	1107.1	1074.5	1056.7	1044.6	1034.1	1026.8	1021.9	1015.7
30°	1189.5	1133.0	1090.5	1053.3	1026.2	1008.5	1000.7	994.5	985.9	982.9	979.8
32.5°	1126.3	1075.4	1039.1	1006.8	981.0	969.4	962.3	956.7	950.1	947.0	940.8
35°	1037.0	994.5	958.9	941.1	920.2	910.1	904.7	897.0	890.8	887.7	886.9
37.5°	953.0	916.0	892.6	869.7	860.9	854.7	847.3	842.0	840.2	839.7	838.9
40°	898.5	868.3	847.5	828.9	825.0	815.7	809.5	804.9	804.9	805.7	804.9
42.5°	849.0	821.9	803.4	787.4	782.8	777.3	771.1	770.8	772.0	774.7	772.0
45°	774.0	754.6	741.4	733.7	725.2	719.7	718.9	721.2	722.1	722.9	725.2
47.5°	704.9	692.1	680.1	671.6	667.9	666.9	666.0	670.0	673.8	675.2	678.7
50°	664.0	649.3	639.2	633.8	630.8	629.1	630.8	635.4	638.4	642.4	644.7
52.5°	618.2	607.8	600.9	596.7	595.4	596.4	596.7	602.0	606.9	608.3	609.4
55°	554.9	547.1	545.6	538.7	541.7	541.0	544.8	548.0	552.6	557.2	558.0
57.5°	491.7	485.5	481.4	482.0	482.9	486.4	489.6	495.0	500.0	504.9	505.3
60°	449.7	446.6	444.2	444.2	445.8	450.4	454.2	459.7	462.8	465.9	468.2
62.5°	411.2	408.2	405.9	407.1	411.1	413.8	418.4	421.3	424.4	427.5	428.6
65°	350.6	349.0	351.3	352.9	353.7	357.6	362.9	365.3	368.4	369.9	375.4
67.5°	294.7	295.0	294.7	296.9	301.3	302.3	307.4	312.9	313.5	316.4	319.9
70°	256.9	258.5	260.0	261.6	265.5	267.0	270.8	273.2	276.3	278.6	280.9
72.5°	222.3	222.6	224.1	223.8	227.0	230.5	233.7	236.0	239.1	242.1	244.4
75°	171.1	171.1	172.6	173.4	177.2	181.1	180.4	181.9	185.0	188.0	189.7
77.5°	124.9	123.2	124.9	125.7	126.9	130.2	130.8	133.0	136.5	135.4	137.1
80°	95.2	92.9	95.2	95.9	95.9	99.9	99.9	101.4	103.7	101.4	103.7
82.5°	68.0	66.9	68.6	68.8	70.0	70.1	71.4	71.7	74.0	72.9	74.0
85°	34.0	33.3	34.0	33.3	34.0	34.8	34.8	34.0	34.0	35.6	33.3
87.5°	13.5	13.9	14.6	15.9	16.6	17.2	16.5	16.4	16.3	14.8	14.8
90°	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6	44.1	43.5	43.3
92.5°	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9	42.0	42.1	42.2
95°	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8	83.8	83.8	83.5
97.5°	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9	140.9	140.9	140.9
100°	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7	180.7	180.7	180.6
102.5°	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1	224.4	224.6	224.6
105°	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2	289.8	290.4	290.7
107.5°	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5	359.7	360.0	359.4
110°	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	407.3	406.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0	454.3	453.6	453.0
115°	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5	528.2	527.9	527.3
117.5°	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4	598.6	597.9	597.2
120°	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8	646.8	646.8	646.4
122.5°	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8	695.1	694.4	693.7
125°	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2	767.3	766.5	765.9
127.5°	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6	837.5	836.5	835.5
130°	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7	886.1	885.4	884.6
132.5°	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4	932.1	930.9	929.8
135°	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5	1002.2	1001.9	1001.3
137.5°	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5	1068.3	1068.1	1067.4
140°	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0	1113.0	1113.0	1112.5
142.5°	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3	1153.6	1153.8	1153.3
145°	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5	1214.8	1215.0	1214.6
147.5°	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0	1268.7	1269.3	1269.1
150°	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7
152.5°	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2
155°	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2	1380.6	1382.0	1382.3
157.5°	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0	1420.9	1422.9	1423.2
160°	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6	1444.3	1446.0	1446.3
162.5°	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0	1465.9	1467.9	1468.2
165°	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6	1493.6	1495.7	1495.9
167.5°	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4	1516.4	1518.4	1518.7
170°	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9	1528.9	1531.1	1531.2
172.5°	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4	1538.4	1540.4	1540.5
175°	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6	1548.6	1550.6	1550.8
177.5°	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331604-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1931.4	1930.2	1930.2	1924.6	1930.2	1930.2	1931.4	1937.5	1939.4	1940.7	1938.2
5°	1791.6	1789.3	1785.4	1789.3	1785.4	1789.3	1791.6	1802.4	1807.9	1813.3	1818.0
7.5°	1653.4	1644.1	1642.7	1633.6	1642.7	1644.1	1653.4	1658.5	1669.3	1681.5	1692.7
10°	1552.5	1546.3	1545.5	1530.8	1545.5	1546.3	1552.5	1565.6	1576.5	1591.1	1606.6
12.5°	1475.7	1460.9	1463.8	1455.2	1463.8	1460.9	1475.7	1475.8	1488.5	1497.6	1521.9
15°	1342.7	1342.7	1339.7	1326.5	1339.7	1342.7	1342.7	1363.6	1367.5	1382.2	1403.1
17.5°	1247.3	1245.7	1238.3	1241.9	1238.3	1245.7	1247.3	1262.5	1265.2	1284.9	1302.0
20°	1190.2	1185.7	1176.4	1176.4	1176.4	1185.7	1190.2	1198.8	1208.8	1220.4	1235.2
22.5°	1136.4	1136.1	1126.2	1129.3	1126.2	1136.1	1136.4	1144.3	1153.8	1166.6	1178.8
25°	1073.4	1067.2	1062.6	1064.9	1062.6	1067.2	1073.4	1074.2	1085.0	1093.6	1101.3
27.5°	1013.7	1010.3	1010.0	1003.6	1010.0	1010.3	1013.7	1015.7	1021.9	1026.8	1034.1
30°	979.0	971.3	972.8	969.0	972.8	971.3	979.0	979.8	982.9	985.9	994.5
32.5°	939.4	936.5	935.0	931.8	935.0	936.5	939.4	940.8	947.0	950.1	956.7
35°	885.3	886.2	882.2	883.8	882.2	886.2	885.3	886.9	887.7	890.8	897.0
37.5°	838.2	840.6	838.8	839.2	838.8	840.6	838.2	838.9	839.7	840.2	842.0
40°	807.2	807.2	807.2	809.5	807.2	807.2	807.2	804.9	805.7	804.9	804.9
42.5°	777.5	776.3	775.0	774.9	775.0	776.3	777.5	772.0	774.7	772.0	770.8
45°	726.7	729.0	729.8	725.9	729.8	729.0	726.7	725.2	722.9	722.1	721.2
47.5°	680.8	681.1	680.8	684.2	680.8	681.1	680.8	678.7	675.2	673.8	670.0
50°	648.5	647.0	648.5	647.0	648.5	647.0	648.5	644.7	642.4	638.4	635.4
52.5°	614.5	614.8	613.9	613.6	613.9	614.8	614.5	609.4	608.3	606.9	602.0
55°	561.1	562.6	561.9	561.9	561.9	562.6	561.1	558.0	557.2	552.6	548.0
57.5°	505.8	507.3	508.3	504.9	508.3	507.3	505.8	505.3	504.9	500.0	495.0
60°	467.5	471.3	470.5	469.0	470.5	471.3	467.5	468.2	465.9	462.8	459.7
62.5°	432.1	433.5	433.4	433.1	433.4	433.5	432.1	428.6	427.5	424.4	421.3
65°	377.7	379.2	376.9	379.2	376.9	379.2	377.7	375.4	369.9	368.4	365.3
67.5°	319.0	319.5	321.1	322.2	321.1	319.5	319.0	319.9	316.4	313.5	312.9
70°	282.5	281.8	284.1	286.4	284.1	281.8	282.5	280.9	278.6	276.3	273.2
72.5°	244.1	245.8	245.0	246.7	245.0	245.8	244.1	244.4	242.1	239.1	236.0
75°	188.0	190.4	189.7	192.0	189.7	190.4	188.0	189.7	188.0	185.0	181.9
77.5°	135.9	136.2	135.9	137.1	135.9	136.2	135.9	137.1	135.4	136.5	133.0
80°	103.7	102.2	100.6	103.7	100.6	102.2	103.7	103.7	101.4	103.7	101.4
82.5°	72.1	73.0	71.5	71.5	71.5	73.0	72.1	74.0	72.9	74.0	71.7
85°	33.3	32.5	31.0	31.0	31.0	32.5	33.3	33.3	35.6	34.0	34.0
87.5°	14.9	14.3	14.4	13.8	14.4	14.3	14.9	14.8	14.8	16.3	16.4
90°	43.6	43.9	44.2	44.5	44.2	43.9	43.6	43.3	43.5	44.1	44.6
92.5°	42.2	42.3	42.4	42.4	42.4	42.3	42.2	42.2	42.1	42.0	41.9
95°	82.9	82.3	81.8	81.2	81.8	82.3	82.9	83.5	83.8	83.8	83.8
97.5°	140.8	140.8	140.7	140.7	140.7	140.8	140.8	140.9	140.9	140.9	140.9
100°	180.3	180.0	179.7	179.4	179.7	180.0	180.3	180.6	180.7	180.7	180.7
102.5°	224.3	224.0	223.7	223.4	223.7	224.0	224.3	224.6	224.6	224.4	224.1
105°	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.7	290.4	289.8	289.2
107.5°	358.1	356.8	355.4	354.1	355.4	356.8	358.1	359.4	360.0	359.7	359.5
110°	406.0	405.1	404.1	403.3	404.1	405.1	406.0	406.8	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	452.3	451.7	451.1	450.4	451.1	451.7	452.3	453.0	453.6	454.3	455.0
115°	526.4	525.5	524.6	523.8	524.6	525.5	526.4	527.3	527.9	528.2	528.5
117.5°	596.3	595.4	594.6	593.7	594.6	595.4	596.3	597.2	597.9	598.6	599.4
120°	645.5	644.7	643.8	643.0	643.8	644.7	645.5	646.4	646.8	646.8	646.8
122.5°	693.1	692.4	691.8	691.2	691.8	692.4	693.1	693.7	694.4	695.1	695.8
125°	765.6	765.3	765.0	764.7	765.0	765.3	765.6	765.9	766.5	767.3	768.2
127.5°	834.6	833.6	832.7	831.7	832.7	833.6	834.6	835.5	836.5	837.5	838.6
130°	883.4	882.3	881.1	879.9	881.1	882.3	883.4	884.6	885.4	886.1	886.7
132.5°	928.9	927.9	927.0	926.0	927.0	927.9	928.9	929.8	930.9	932.1	933.4
135°	1000.4	999.6	998.7	997.7	998.7	999.6	1000.4	1001.3	1001.9	1002.2	1002.5
137.5°	1066.2	1065.1	1063.9	1062.8	1063.9	1065.1	1066.2	1067.4	1068.1	1068.3	1068.5
140°	1111.3	1110.1	1108.9	1107.8	1108.9	1110.1	1111.3	1112.5	1113.0	1113.0	1113.0
142.5°	1152.2	1150.9	1149.8	1148.6	1149.8	1150.9	1152.2	1153.3	1153.8	1153.6	1153.3
145°	1213.5	1212.2	1211.1	1209.9	1211.1	1212.2	1213.5	1214.6	1215.0	1214.8	1214.5
147.5°	1268.0	1266.9	1265.8	1264.7	1265.8	1266.9	1268.0	1269.1	1269.3	1268.7	1268.0
150°	1302.9	1302.0	1301.1	1300.3	1301.1	1302.0	1302.9	1303.7	1303.7	1302.9	1302.0
152.5°	1337.1	1336.1	1334.9	1333.8	1334.9	1336.1	1337.1	1338.2	1338.2	1337.1	1336.1
155°	1381.5	1380.6	1379.7	1378.9	1379.7	1380.6	1381.5	1382.3	1382.0	1380.6	1379.2
157.5°	1421.8	1420.4	1419.0	1417.5	1419.0	1420.4	1421.8	1423.2	1422.9	1420.9	1419.0
160°	1445.2	1444.0	1442.9	1441.7	1442.9	1444.0	1445.2	1446.3	1446.0	1444.3	1442.6
162.5°	1466.8	1465.4	1464.0	1462.7	1464.0	1465.4	1466.8	1468.2	1467.9	1465.9	1464.0
165°	1494.5	1493.1	1491.6	1490.2	1491.6	1493.1	1494.5	1495.9	1495.7	1493.6	1491.6
167.5°	1517.2	1515.7	1514.2	1512.7	1514.2	1515.7	1517.2	1518.7	1518.4	1516.4	1514.4
170°	1529.4	1527.7	1525.9	1524.2	1525.9	1527.7	1529.4	1531.2	1531.1	1528.9	1526.9
172.5°	1538.8	1537.1	1535.4	1533.6	1535.4	1537.1	1538.8	1540.5	1540.4	1538.4	1536.4
175°	1549.0	1547.3	1545.6	1543.8	1545.6	1547.3	1549.0	1550.8	1550.6	1548.6	1546.6
177.5°	1552.8	1551.4	1549.9	1548.5	1549.9	1551.4	1552.8	1554.1	1554.1	1552.8	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	1935.1	1941.9	1952.5	1963.6	1970.3	1983.4	1987.1	1993.3	1998.8	2011.9	2025.5
5°	1823.3	1834.2	1859.7	1873.6	1893.0	1915.4	1930.2	1945.6	1962.7	1992.1	2019.1
7.5°	1703.5	1721.6	1753.3	1779.4	1807.0	1839.2	1862.3	1893.0	1918.3	1959.8	1999.4
10°	1623.7	1649.2	1677.9	1708.8	1747.5	1781.5	1814.0	1852.7	1883.7	1933.2	1979.6
12.5°	1551.9	1555.7	1596.7	1630.8	1683.7	1725.9	1763.3	1813.1	1843.4	1902.3	1951.2
15°	1426.3	1449.6	1486.7	1513.8	1576.5	1629.8	1682.4	1734.3	1769.2	1841.9	1906.1
17.5°	1320.6	1342.0	1380.1	1424.4	1469.5	1522.6	1590.7	1645.4	1692.7	1775.8	1851.8
20°	1253.7	1280.0	1318.8	1364.4	1403.9	1461.9	1520.8	1583.5	1634.5	1728.2	1817.2
22.5°	1196.8	1217.5	1248.8	1293.8	1337.0	1390.1	1454.5	1522.8	1576.3	1677.4	1767.6
25°	1116.7	1133.8	1153.9	1191.0	1239.8	1297.9	1348.2	1423.2	1501.4	1595.8	1705.0
27.5°	1044.6	1056.7	1074.5	1107.1	1144.9	1199.2	1255.2	1326.4	1404.9	1507.4	1622.6
30°	1000.7	1008.5	1026.2	1053.3	1090.5	1133.0	1189.5	1257.6	1338.1	1441.8	1556.3
32.5°	962.3	969.4	981.0	1006.8	1039.1	1075.4	1126.3	1194.5	1271.2	1373.1	1500.0
35°	904.7	910.1	920.2	941.1	958.9	994.5	1037.0	1098.9	1170.9	1268.5	1400.0
37.5°	847.3	854.7	860.9	869.7	892.6	916.0	953.0	1005.3	1075.9	1174.4	1299.7
40°	809.5	815.7	825.0	828.9	847.5	868.3	898.5	946.4	1017.7	1107.4	1229.7
42.5°	771.1	777.3	782.8	787.4	803.4	821.9	849.0	890.2	953.3	1040.6	1161.6
45°	718.9	719.7	725.2	733.7	741.4	754.6	774.0	809.5	858.3	940.3	1050.2
47.5°	666.0	666.9	667.9	671.6	680.1	692.1	704.9	733.9	777.5	842.9	949.9
50°	630.8	629.1	630.8	633.8	639.2	649.3	664.0	684.9	720.5	781.6	879.9
52.5°	596.7	596.4	595.4	596.7	600.9	607.8	618.2	636.0	667.9	724.1	810.6
55°	544.8	541.0	541.7	538.7	545.6	547.1	554.9	569.6	597.4	636.1	717.4
57.5°	489.6	486.4	482.9	482.0	481.4	485.5	491.7	503.3	524.7	558.7	624.5
60°	454.2	450.4	445.8	444.2	444.2	446.6	449.7	458.2	478.3	508.5	562.6
62.5°	418.4	413.8	411.1	407.1	405.9	408.2	411.2	417.3	431.8	460.2	507.0
65°	362.9	357.6	353.7	352.9	351.3	349.0	350.6	356.8	368.4	390.8	428.0
67.5°	307.4	302.3	301.3	296.9	294.7	295.0	294.7	299.9	306.9	326.3	354.0
70°	270.8	267.0	265.5	261.6	260.0	258.5	256.9	261.6	268.5	284.8	308.8
72.5°	233.7	230.5	227.0	223.8	224.1	222.6	222.3	225.1	230.8	245.8	264.2
75°	180.4	181.1	177.2	173.4	172.6	171.1	171.1	173.4	175.7	187.3	202.0
77.5°	130.8	130.2	126.9	125.7	124.9	123.2	124.9	126.4	127.6	135.4	146.2
80°	99.9	99.9	95.9	95.9	95.2	92.9	95.2	93.6	96.7	104.5	112.2
82.5°	71.4	70.1	70.0	68.8	68.6	66.9	68.0	69.5	70.7	76.0	80.7
85°	34.8	34.8	34.0	33.3	34.0	33.3	34.0	34.8	35.6	38.0	41.8
87.5°	16.5	17.2	16.6	15.9	14.6	13.9	13.5	13.5	14.0	13.9	13.8
90°	45.2	45.8	39.4	33.0	26.7	20.2	15.2	11.8	8.3	4.8	1.3
92.5°	41.7	41.6	40.1	38.6	37.1	35.5	33.5	31.0	28.5	25.9	23.3
95°	83.8	83.8	83.2	82.6	82.1	81.5	79.8	76.9	73.9	71.0	68.1
97.5°	140.9	140.9	139.8	138.7	137.5	136.4	134.6	132.1	129.6	126.9	124.4
100°	180.7	180.7	179.9	178.9	178.0	177.2	175.6	173.3	171.0	168.6	166.3
102.5°	223.9	223.7	222.6	221.5	220.4	219.2	217.7	215.9	214.0	212.2	210.3
105°	288.6	288.1	287.5	286.9	286.3	285.8	285.0	284.2	283.3	282.4	281.6
107.5°	359.3	359.0	359.0	359.0	359.0	359.0	358.4	357.1	355.9	354.6	353.3
110°	407.3	407.3	407.3	407.3	407.3	407.3	406.4	404.7	402.8	401.1	399.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	455.8	456.5	456.7	457.0	457.2	457.4	456.7	454.9	453.1	451.4	449.7
115°	528.8	529.0	529.6	530.2	530.8	531.3	530.8	529.0	527.3	525.5	523.8
117.5°	600.1	600.8	602.4	604.0	605.6	607.3	606.9	604.6	602.3	600.0	597.6
120°	646.8	646.8	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8
122.5°	696.4	697.1	698.7	700.4	702.1	703.7	703.1	700.2	697.5	694.7	691.9
125°	769.1	769.9	770.8	771.7	772.5	773.5	772.5	769.9	767.3	764.7	762.0
127.5°	839.6	840.6	841.7	842.7	843.8	844.9	843.7	840.4	837.1	833.7	830.4
130°	887.2	887.8	888.4	889.0	889.6	890.1	888.5	884.7	881.0	877.2	873.4
132.5°	934.7	935.9	935.8	935.7	935.6	935.5	933.9	930.8	927.8	924.6	921.6
135°	1002.7	1003.0	1002.5	1001.9	1001.3	1000.7	998.9	995.6	992.4	989.2	986.0
137.5°	1068.8	1069.0	1068.2	1067.5	1066.7	1066.0	1064.3	1061.7	1059.0	1056.4	1053.8
140°	1113.0	1113.0	1111.6	1110.1	1108.6	1107.2	1105.2	1102.6	1099.9	1097.3	1094.7
142.5°	1153.1	1152.9	1151.9	1150.8	1149.8	1148.8	1147.1	1144.5	1141.9	1139.2	1136.6
145°	1214.2	1213.9	1212.1	1210.3	1208.6	1206.9	1205.0	1203.0	1200.9	1198.9	1196.8
147.5°	1267.4	1266.8	1265.6	1264.5	1263.2	1262.1	1260.3	1257.9	1255.4	1252.9	1250.5
150°	1301.1	1300.3	1299.1	1298.0	1296.8	1295.7	1294.1	1292.4	1290.7	1288.9	1287.2
152.5°	1334.9	1333.8	1332.4	1331.0	1329.6	1328.2	1326.7	1324.8	1323.1	1321.4	1319.7
155°	1377.7	1376.2	1375.3	1374.4	1373.6	1372.7	1371.9	1371.0	1370.1	1369.3	1368.4
157.5°	1416.9	1415.0	1414.4	1413.9	1413.4	1412.9	1412.3	1411.8	1411.2	1410.6	1410.0
160°	1440.8	1439.1	1438.8	1438.5	1438.1	1437.9	1437.4	1436.9	1436.3	1435.7	1435.1
162.5°	1462.0	1460.1	1459.8	1459.5	1459.2	1458.9	1458.6	1458.5	1458.4	1458.3	1458.1
165°	1489.6	1487.5	1487.5	1487.5	1487.5	1487.5	1487.6	1487.9	1488.2	1488.5	1488.8
167.5°	1512.4	1510.3	1510.4	1510.5	1510.5	1510.6	1511.0	1511.9	1512.8	1513.6	1514.5
170°	1524.9	1522.9	1523.2	1523.5	1523.8	1524.1	1524.6	1525.5	1526.4	1527.2	1528.1
172.5°	1534.4	1532.3	1532.6	1532.9	1533.2	1533.5	1534.1	1534.9	1535.8	1536.7	1537.5
175°	1544.6	1542.5	1543.1	1543.7	1544.3	1544.9	1545.6	1546.4	1547.3	1548.2	1549.0
177.5°	1549.9	1548.5	1549.0	1549.4	1549.9	1550.4	1551.0	1551.7	1552.4	1553.1	1553.8
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



TEST NUMBER: P331604-840
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2024.3	2027.3	2037.2	2047.2	2058.3	2061.4	2066.4	2062.0	2060.7	2072.5	2081.2
5°	2029.9	2043.9	2071.0	2095.8	2116.7	2131.3	2146.9	2153.0	2164.6	2180.9	2201.0
7.5°	2023.5	2050.5	2093.1	2129.2	2168.5	2196.9	2219.0	2237.9	2260.8	2291.6	2325.1
10°	2016.0	2052.4	2104.3	2148.4	2196.4	2232.7	2262.9	2292.3	2326.4	2368.9	2413.1
12.5°	2002.5	2045.6	2110.4	2162.6	2224.2	2260.0	2300.7	2364.2	2400.7	2459.9	2522.0
15°	1975.0	2023.0	2113.5	2177.8	2247.5	2315.5	2390.7	2450.9	2511.3	2546.2	2633.6
17.5°	1934.3	2004.8	2105.1	2180.0	2268.5	2375.7	2460.1	2528.5	2598.2	2654.6	2698.5
20°	1901.5	1978.1	2092.6	2182.4	2287.6	2403.0	2499.7	2569.4	2629.8	2677.0	2704.0
22.5°	1860.0	1956.4	2067.9	2173.1	2307.5	2421.6	2523.2	2578.1	2628.5	2651.6	2661.9
25°	1794.7	1910.8	2036.9	2165.5	2317.1	2437.8	2530.7	2563.9	2578.7	2556.3	2519.1
27.5°	1724.2	1853.7	2001.1	2150.8	2311.2	2427.3	2493.9	2488.6	2463.7	2391.1	2333.0
30°	1671.6	1814.0	1972.7	2136.0	2296.9	2409.9	2448.6	2409.9	2353.5	2272.2	2189.4
32.5°	1616.6	1763.9	1942.4	2115.0	2271.0	2370.4	2378.7	2312.2	2224.7	2132.3	2029.0
35°	1533.1	1692.5	1885.2	2067.9	2215.7	2278.4	2241.3	2123.6	2019.9	1893.8	1752.9
37.5°	1438.9	1614.9	1808.2	1999.0	2132.9	2149.3	2057.1	1933.2	1787.0	1638.7	1472.9
40°	1368.3	1554.8	1753.7	1946.4	2064.8	2047.8	1930.2	1793.9	1619.8	1438.7	1284.6
42.5°	1305.1	1491.7	1694.3	1883.2	1978.1	1931.4	1793.9	1626.8	1439.7	1269.1	1128.0
45°	1195.7	1387.7	1595.1	1777.7	1831.9	1747.5	1565.6	1379.9	1195.7	1053.3	941.9
47.5°	1089.5	1279.3	1484.7	1645.2	1664.4	1551.0	1352.2	1161.0	1002.7	886.8	808.1
50°	1011.5	1201.8	1405.4	1548.6	1542.4	1405.4	1201.1	1019.3	886.9	793.2	740.6
52.5°	941.5	1121.4	1316.9	1447.0	1414.2	1264.9	1069.9	908.4	799.6	726.4	678.7
55°	832.7	999.2	1184.9	1289.3	1229.0	1063.4	898.5	768.5	688.0	633.1	595.9
57.5°	724.7	880.7	1039.7	1104.1	1037.3	884.4	747.0	652.7	592.2	551.5	527.4
60°	657.8	794.1	935.6	991.4	911.7	775.5	667.1	582.8	534.0	500.7	479.1
62.5°	591.0	713.0	846.5	876.9	804.0	688.8	592.8	522.7	482.6	453.0	432.6
65°	500.0	599.8	701.1	721.2	654.0	564.9	489.1	443.4	407.9	386.2	369.9
67.5°	410.0	490.2	562.0	578.2	519.3	457.6	402.7	362.9	338.8	320.8	307.1
70°	356.8	420.2	479.1	492.2	445.0	390.0	348.3	316.5	294.9	279.4	266.2
72.5°	300.4	353.4	402.2	411.1	372.5	330.6	296.3	271.4	252.2	242.3	229.7
75°	229.8	260.8	298.7	301.0	275.5	249.9	223.7	207.4	197.3	185.0	178.7
77.5°	162.2	186.5	208.1	212.4	197.2	179.9	165.1	152.3	143.8	138.0	132.3
80°	123.8	143.2	152.5	157.8	147.0	134.6	126.1	117.6	112.2	108.4	104.5
82.5°	88.6	100.5	109.2	113.3	107.4	100.0	91.5	86.6	82.5	79.3	77.9
85°	44.8	50.3	55.7	57.3	55.7	52.6	48.0	48.0	45.6	44.8	44.8
87.5°	16.5	19.6	20.3	22.8	22.6	23.9	25.1	25.9	26.5	25.8	25.0
90°	4.8	8.3	11.8	15.2	20.2	26.7	33.0	39.4	45.8	45.2	44.6
92.5°	25.9	28.5	31.0	33.5	35.5	37.1	38.6	40.1	41.6	41.7	41.9
95°	71.0	73.9	76.9	79.8	81.5	82.1	82.6	83.2	83.8	83.8	83.8
97.5°	126.9	129.6	132.1	134.6	136.4	137.5	138.7	139.8	140.9	140.9	140.9
100°	168.6	171.0	173.3	175.6	177.2	178.0	178.9	179.9	180.7	180.7	180.7
102.5°	212.2	214.0	215.9	217.7	219.2	220.4	221.5	222.6	223.7	223.9	224.1
105°	282.4	283.3	284.2	285.0	285.8	286.3	286.9	287.5	288.1	288.6	289.2
107.5°	354.6	355.9	357.1	358.4	359.0	359.0	359.0	359.0	359.0	359.3	359.5
110°	401.1	402.8	404.7	406.4	407.3	407.3	407.3	407.3	407.3	407.3	407.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	451.4	453.1	454.9	456.7	457.4	457.2	457.0	456.7	456.5	455.8	455.0
115°	525.5	527.3	529.0	530.8	531.3	530.8	530.2	529.6	529.0	528.8	528.5
117.5°	600.0	602.3	604.6	606.9	607.3	605.6	604.0	602.4	600.8	600.1	599.4
120°	649.1	651.6	653.9	656.2	656.2	653.9	651.6	649.1	646.8	646.8	646.8
122.5°	694.7	697.5	700.2	703.1	703.7	702.1	700.4	698.7	697.1	696.4	695.8
125°	764.7	767.3	769.9	772.5	773.5	772.5	771.7	770.8	769.9	769.1	768.2
127.5°	833.7	837.1	840.4	843.7	844.9	843.8	842.7	841.7	840.6	839.6	838.6
130°	877.2	881.0	884.7	888.5	890.1	889.6	889.0	888.4	887.8	887.2	886.7
132.5°	924.6	927.8	930.8	933.9	935.5	935.6	935.7	935.8	935.9	934.7	933.4
135°	989.2	992.4	995.6	998.9	1000.7	1001.3	1001.9	1002.5	1003.0	1002.7	1002.5
137.5°	1056.4	1059.0	1061.7	1064.3	1066.0	1066.7	1067.5	1068.2	1069.0	1068.8	1068.5
140°	1097.3	1099.9	1102.6	1105.2	1107.2	1108.6	1110.1	1111.6	1113.0	1113.0	1113.0
142.5°	1139.2	1141.9	1144.5	1147.1	1148.8	1149.8	1150.8	1151.9	1152.9	1153.1	1153.3
145°	1198.9	1200.9	1203.0	1205.0	1206.9	1208.6	1210.3	1212.1	1213.9	1214.2	1214.5
147.5°	1252.9	1255.4	1257.9	1260.3	1262.1	1263.2	1264.5	1265.6	1266.8	1267.4	1268.0
150°	1288.9	1290.7	1292.4	1294.1	1295.7	1296.8	1298.0	1299.1	1300.3	1301.1	1302.0
152.5°	1321.4	1323.1	1324.8	1326.7	1328.2	1329.6	1331.0	1332.4	1333.8	1334.9	1336.1
155°	1369.3	1370.1	1371.0	1371.9	1372.7	1373.6	1374.4	1375.3	1376.2	1377.7	1379.2
157.5°	1410.6	1411.2	1411.8	1412.3	1412.9	1413.4	1413.9	1414.4	1415.0	1416.9	1419.0
160°	1435.7	1436.3	1436.9	1437.4	1437.9	1438.1	1438.5	1438.8	1439.1	1440.8	1442.6
162.5°	1458.3	1458.4	1458.5	1458.6	1458.9	1459.2	1459.5	1459.8	1460.1	1462.0	1464.0
165°	1488.5	1488.2	1487.9	1487.6	1487.5	1487.5	1487.5	1487.5	1487.5	1489.6	1491.6
167.5°	1513.6	1512.8	1511.9	1511.0	1510.6	1510.5	1510.5	1510.4	1510.3	1512.4	1514.4
170°	1527.2	1526.4	1525.5	1524.6	1524.1	1523.8	1523.5	1523.2	1522.9	1524.9	1526.9
172.5°	1536.7	1535.8	1534.9	1534.1	1533.5	1533.2	1532.9	1532.6	1532.3	1534.4	1536.4
175°	1548.2	1547.3	1546.4	1545.6	1544.9	1544.3	1543.7	1543.1	1542.5	1544.6	1546.6
177.5°	1553.1	1552.4	1551.7	1551.0	1550.4	1549.9	1549.4	1549.0	1548.5	1549.9	1551.4
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7	2013.7
2.5°	2088.6	2097.3	2097.3	2098.5	2108.4	2107.2	2106.6
5°	2222.7	2235.8	2237.4	2251.3	2260.6	2257.5	2249.0
7.5°	2349.1	2373.6	2392.2	2402.6	2414.8	2422.4	2418.9
10°	2449.4	2485.1	2506.7	2521.4	2539.2	2552.3	2547.7
12.5°	2540.4	2582.8	2612.6	2637.8	2640.1	2657.0	2645.5
15°	2682.4	2727.2	2731.9	2750.5	2765.2	2763.6	2764.4
17.5°	2729.3	2743.7	2746.6	2747.0	2747.2	2741.8	2730.1
20°	2712.6	2707.1	2694.0	2683.9	2666.1	2663.8	2648.4
22.5°	2633.3	2616.2	2583.1	2561.3	2533.7	2526.4	2522.0
25°	2477.3	2439.3	2386.7	2336.4	2322.5	2295.4	2303.2
27.5°	2263.2	2204.1	2147.2	2106.3	2069.3	2028.7	2040.3
30°	2112.7	2046.2	1965.7	1903.8	1864.3	1825.6	1818.7
32.5°	1933.2	1835.7	1746.0	1691.4	1630.9	1606.5	1579.7
35°	1623.7	1528.4	1439.5	1362.8	1318.8	1284.6	1253.7
37.5°	1345.2	1235.7	1163.8	1101.8	1069.9	1050.4	1055.3
40°	1172.5	1076.5	1023.9	976.6	947.3	933.3	936.4
42.5°	1032.6	960.7	917.4	885.0	864.3	856.6	854.7
45°	873.7	833.5	797.9	779.3	769.3	760.7	755.4
47.5°	765.4	732.6	712.5	701.5	692.7	684.0	683.8
50°	700.3	678.7	664.8	653.2	646.2	640.1	645.4
52.5°	650.9	631.1	617.1	606.7	604.1	598.5	598.3
55°	577.3	561.9	551.8	542.5	537.9	534.7	530.9
57.5°	510.5	495.7	486.5	480.6	471.8	468.7	467.5
60°	462.8	451.2	441.9	434.1	430.3	424.1	424.1
62.5°	418.8	407.3	398.6	392.6	386.4	383.8	384.5
65°	355.3	346.0	337.4	331.2	329.7	325.1	326.6
67.5°	296.7	290.5	281.6	278.1	275.2	272.8	270.8
70°	257.7	251.6	246.9	242.3	239.9	239.9	239.9
72.5°	224.9	217.4	214.7	208.8	210.2	207.7	205.2
75°	174.1	169.5	167.1	164.8	161.0	161.0	161.0
77.5°	128.2	126.7	124.0	121.5	120.6	119.8	120.1
80°	99.1	98.3	96.7	96.7	95.2	94.4	92.9
82.5°	76.1	74.1	73.2	72.6	72.3	72.1	71.8
85°	43.3	41.8	41.8	42.5	41.0	41.0	41.8
87.5°	25.5	25.4	24.7	24.8	25.5	24.9	25.0
90°	44.1	43.5	43.3	43.6	43.9	44.2	44.5
92.5°	42.0	42.1	42.2	42.2	42.3	42.4	42.4
95°	83.8	83.8	83.5	82.9	82.3	81.8	81.2
97.5°	140.9	140.9	140.9	140.8	140.8	140.7	140.7
100°	180.7	180.7	180.6	180.3	180.0	179.7	179.4
102.5°	224.4	224.6	224.6	224.3	224.0	223.7	223.4
105°	289.8	290.4	290.7	290.7	290.7	290.7	290.7
107.5°	359.7	360.0	359.4	358.1	356.8	355.4	354.1
110°	407.3	407.3	406.8	406.0	405.1	404.1	403.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.3	453.6	453.0	452.3	451.7	451.1	450.4
115°	528.2	527.9	527.3	526.4	525.5	524.6	523.8
117.5°	598.6	597.9	597.2	596.3	595.4	594.6	593.7
120°	646.8	646.8	646.4	645.5	644.7	643.8	643.0
122.5°	695.1	694.4	693.7	693.1	692.4	691.8	691.2
125°	767.3	766.5	765.9	765.6	765.3	765.0	764.7
127.5°	837.5	836.5	835.5	834.6	833.6	832.7	831.7
130°	886.1	885.4	884.6	883.4	882.3	881.1	879.9
132.5°	932.1	930.9	929.8	928.9	927.9	927.0	926.0
135°	1002.2	1001.9	1001.3	1000.4	999.6	998.7	997.7
137.5°	1068.3	1068.1	1067.4	1066.2	1065.1	1063.9	1062.8
140°	1113.0	1113.0	1112.5	1111.3	1110.1	1108.9	1107.8
142.5°	1153.6	1153.8	1153.3	1152.2	1150.9	1149.8	1148.6
145°	1214.8	1215.0	1214.6	1213.5	1212.2	1211.1	1209.9
147.5°	1268.7	1269.3	1269.1	1268.0	1266.9	1265.8	1264.7
150°	1302.9	1303.7	1303.7	1302.9	1302.0	1301.1	1300.3
152.5°	1337.1	1338.2	1338.2	1337.1	1336.1	1334.9	1333.8
155°	1380.6	1382.0	1382.3	1381.5	1380.6	1379.7	1378.9
157.5°	1420.9	1422.9	1423.2	1421.8	1420.4	1419.0	1417.5
160°	1444.3	1446.0	1446.3	1445.2	1444.0	1442.9	1441.7
162.5°	1465.9	1467.9	1468.2	1466.8	1465.4	1464.0	1462.7
165°	1493.6	1495.7	1495.9	1494.5	1493.1	1491.6	1490.2
167.5°	1516.4	1518.4	1518.7	1517.2	1515.7	1514.2	1512.7
170°	1528.9	1531.1	1531.2	1529.4	1527.7	1525.9	1524.2
172.5°	1538.4	1540.4	1540.5	1538.8	1537.1	1535.4	1533.6
175°	1548.6	1550.6	1550.8	1549.0	1547.3	1545.6	1543.8
177.5°	1552.8	1554.1	1554.1	1552.8	1551.4	1549.9	1548.5
180°	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7	1551.7

(END OF REPORT)